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C. S. G. 80-2787, Colored and American OCTM 4:910 Ass. Flo.

Diag Cht. No. 8551-2

Department of Commerce and Labor COAST AND GEODETIC SURVEY
Superintendent.
State: Alaska
DESCRIPTIVE REPORT.
Hydro. Sheet No. 3186
Johnstone Point
190
Silbert T Rude

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3186

DESCRIPTIVE REPORT

to accompany hydrographic Sheet No. 3/86 VICINITY JOHNSTONS POINT, HINCHINBROOK ID.

U. O. O. SURVEY, CUBALARY AND COT 2 5 1910
Aco. 110.

ALASKA

SEASON 1910.

Gilbert T. Rude,

Chief of Party.

INSTRUCTIONS: -

"Execute hydrography in the vicinity of Johnstone Point, Hinchin-brook Island, filling the gap between the previous surveys, from about 5 miles Southwest of Johnstone Point to about $2\frac{1}{2}$ miles East of it. It will not be necessary to extend the soundings beyond a depth of 100 fathoms. The special object is to prove the existence or non-existence of a reported shoal off the Point."

METHOD OF SURVEY.

"Description of Stations" was furnished for one station only,
Johnstone Point, but the Stations Banner, Pillar, Hang and Curve were found. To
locate hydrographic signals between Johnstone Point and Station Banner, a Plane

UP
Table was set at Johnstone Point, oriented on Goose Island with an azimuth line
and a traverse run along the beach. From Johnstone Point Southwest to Signal
Curve the intermediate signals were located by cuts from the bridge of Steamer,
using three sextants and locating with Signals Johnstone Point, Pillar, Hang
and Curve.

The sounding lines were run parallel to the coast line except the inshore lines from Johnstone Point to Signal Curve. The one hundred fathom curve was developed between these two points, but it was not possible to develope that curve to the Northward and Eastward of Johnstone Point as there is less than one hundred fathoms in the entrance to Cordova Bay.

DANGERS REPORTED ON CHART!

Mo shoal water was found in the vicinity of Johnstone Point except close inshore between signals "Tan" and "Lit" and along the shore between signals "Bee" and
"Banner". In both these places there is a gradual slope from the shore and not a defined shoal.

Tide rips occur off signal "Tan", extending about one-half mile off shore.

They have the appearance of a shoal and probably caused the report of shoals off

Johnstone Point.

A line of kelp about fifty meters wide extends along the shore off signal "Bon" and between signals "Bee" and "Ped". There is also kelp North of signal "Tri". The positions of kelp and tide rips are shown on the boat sheet and the smooth sheet.

ANCHORAGES.

There are no good anchorages within the limits of the sheet. Anchorage for the Taku was sought in Shelter Bay but the entrance was too shallow and the current too swift. Temporary anchorage, with shelter from Easterly and Southeasterly winds, may be had in the bight at the entrance to Shelter Bay. The anchorage is about midway between the two points at the entrance and about a half mile off shore in about five to ten fathoms, sand and mud. The bottom slopes gradually from the shore in the bight, and shoal water extends about a quarter mile off the shore.

The anchorage off the sand beach between signals "Tan" and "Lit" is mentioned in the "Alaska Coast Pilot Notes".

Good anchorage for small craft can be found in Big Octopus Bay in three fathoms, sticky bottom. Care should be exercised in entering to avoid two rocks in
the entrance, the one on the West side of the channel bare at about half tide, the
Easterly bare at extreme low water. The former is at the end of a sand spit making

out from the shore and should be given a berth of about forty yards. Ifter passing inside clear of this rock, haul over for hollow in Southwest side of Bay and anchor on West side about 250 or 300 yards off shore and about half way between sand spit at entrance and the South shore of Bay.

GENERAL DESCRIPTION OF COAST LINE.

A chain of mountains, ranging from 1200 to 3000 feet, extends in about an ExN (true) direction from the South end of the work. Johnstone Point and vicinity is low, (about 50 feet) the low land, with a few inconspicuous foot hills, extending back from three to four miles to the base of the mountains. The lowland is sparsely wooded and the mountains are wooded to an elevation of about 1200 feet, above this they have the appearance of black rock.

The coast line from Shelter Bay Southward is bold. In the vicinity of signal "Sig" the shore is low and from signal "Pillar to "Lit" the shore is composed of rocky cliffs about 30 to 50 feet high. A shingle beach extends from signal "Lit" to "Tan". The shoreline from signal "Tan" to and around Johnstone Point about 300 yards is again formed of cliffs about 30 to 50 feet high. A shingle beach extends from a point about half way between Johnstone Point and signal "Bee" to signal "Banner".

WATER

The Taku watered at a small fall about 300 yards S. W. of signal "Lit". It was taken aboard in small boats and pumped into the tanks.

VAMES

All names used are taken from the C. & G. S. Charts, except the two bays half way between Johnstone Point and Mawkins Id. Cut Off. The Westerly was called Little Octopus Bay and the Easterly Big Octopus Bay, from the large number of small arms forming them. The Tide Staff was established in Big Octopus Bay.

TIDE STAFF

One B. M. at Camp Denson was found but the small island mentioned in the description has been washed away and it was impossible to place a staff in that loc-cality. A staff was erected in Big Octopus Bay and Datum Plane established with nine low waters.

TOPOGRAPHY.

A traverse was run from Johnstone Point to signal "Banner" and the shoreline shown in red on smooth hydrographic sheet. All prominent peaks were located by sextant cuts from the bridge of Steamer while running sounding lines and the contours sketched. These are shown on the smooth hydrographic sheet in broken red lines, and the cuts are recorded in the sounding record book.

The elevations are approximate and were estimated by comparison with Peak I, located by previous survey, and with each other.

Respectfully submitted,

Assistant, C.& G. Survey,

G. Phert J. Rude.

Chief of Party.

Let of topographic of hydrographic Stations, Johnstone Point, Alaska

	Τ		7	Ι,		T	
Name	-	<i>\$</i>	D.M	4 4		D. M	Description
Box	60	28	1740	146	<i>3</i> 3	390	Cannot be recovered
Bon	60	28	1684	146	34	216	Tripod on faller dead tree on brach.
Red			Į.			i	Top of large rock
1	1		Ī	ſ			Camot & recovered
1 .			1	r	ı		duter face large rock
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					- 1	İ	Camot be recovered
	l	ı			- 1		Cannot be recovered
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Last	60	24	1090	146	42	604	Cannot be recovered
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V.E.C. Dec.5,1910

HYDROGRAPHIC SHEET 3186.

Johnstone Point, Prince William Sound, Alaska, by Asst. G. T. Rude in 1910.

TIDES.

Noon lower law water		Octopus Bay ft.
Mean lower low water, plane of reference	on staff	5.2
Lowest tide observed		2.8
Highest " . "	W W State	16.6
Mean range of tide		9.4

DEC 9 1910

Protective flotte a moked by HZV Verified by R.L.J.

All soundings shown in feet.

The defith of 84 feet about I wile southwest of APt. Johnstone is losstful. The examination made on I day gives no indications of a shoul at the first. The countries which the reads state should probably have been 83 fine a 218 ft reduced.

The seconds were well kept.

A Lemans

Verified;

Jan. 9th, 1911

I think that it would be better to take out the 84ft sounding and the one hundred and twenty foot curve around it and to show the 158 ft sounding, on line from pos. 6 h to pos. 7 h, which falls on the same spot, instead.

R.L. Johnston

This is recommended.